

Answer on Question #51087 – Physics – Mechanics, Kinematics, Dynamics

Question: what is the instrument used for experimental determination of the value of the universal gravitational constant G called?

Answer: the constant was first used in Isaac Newton gravitational law and was determined experimentally many years after that. It was calculated as a result of what is called the Cavendish Experiment.

This experiment used a torsion balance device to attract lead balls together, measuring the torque on a wire and equating it to the gravitational force between the balls. Then by a complex derivation, the value of G can be determined.

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